TEJUS
CONSULTANTS

TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike		
Project	Construction of CC Drains and Roads in Rachenahalli Village in Ward No.06		
Consultants	TEJUS CONSULTANTS		
Contractor	Sri. P Hemanth (SOORYA CREATERS)		
Total Weight:	10000	gms	

SIEVE ANALYSIS

Type of Material	12.5 mm down size	Proposed Use	CONCRETE	
Sample Location	Jain heritage apartment	Date of Sampling	15-07-2020	
		Date of Testing	16-07-2020	

IS Sieve Size (in mm)	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
20.0	0	0	0	100	100
12.5	585	585	5.85	94.15	90-100
10.0	4635	5220	52.20	47.80	40-85
4.75	4458	9678	96.78	3.22	0-10
Pan	322	10000			

Remarks : ✓ Satisfactory / Not Satisfactory

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4.The material used in the site satisfied the standard of MORTH's 5th revision and hence can be used in the work.

A.E.E.(Project)

TEJUS CONSULTANTS

Authorised Signatory

TEJUS CONSULTANTS

TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike	
Project	Construction of CC Drains and Roads in Rachenahalli Village in Ward No.06	
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore	
Contractor	Sri. P Hemanth (SOORYA CREATERS)	
Total Weight:	10000	gms

SIEVE ANALYSIS

Type of Material	20 mm down size	Proposed Use	Concrete
Sample Location	Jain heritage apartment	Date of Sampling	15-07-2020
		Date of Testing	16-07-2020

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
40.00 mm	0	0	0	100	100
20.00 mm	272	272	2.72	97.28	95 - 100
10.00 mm	4844	5116	51.16	48.84	25 - 55
4.75 mm	4226	9342	93.42	6.58	0 - 10
Pan	658	10000			

Remarks : ✓ Satisfactory / Not Satisfactory

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Construction of CC Drains and Roads in Rachenahalli Village in Ward No.06
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri. P Hemanth (SOORYA CREATERS)
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample Location	Jain heritage apartment road @ch.35.00m RHS

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	15-07-2020	22-07-2020	7 days	8.130	22500	318	14.13	13.94
2	15-07-2020	22-07-2020	7 days	8.136	22500	311	13.82	
3	15-07-2020	22-07-2020	7 days	8.140	22500	312	13.87	

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A.E.E. (Project)

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Construction of CC Drains and Roads in Rachenahalli Village in Ward No.06
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri. P Hemanth (SOORYA CREATERS)
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample Location	Jain heritage apartment road @ch.35.00m RHS

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	15-07-2020	11-08-2020	28 days	8.140	22500	495	22.00	22.12
2	15-07-2020	11-08-2020	28 days	8.145	22500	498	22.13	
3	15-07-2020	11-08-2020	28 days	8.146	22500	500	22.22	

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TEST REPORT

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Construction of CC Drains and Roads in Rachenahalli Village in Ward No.06
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri. P Hemanth (SOORYA CREATERS)

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	Fine aggregate (M sand)	Proposed Use	concrete
Location/Source	Jain heritage apartment road	Date of Sampling	15-07-2020
Period of Soaking	24 hours	Date of Testing	16-07-2020

Sl. No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.	648	673	665	
B	Weight of oven - dry sample gm.	641	670	648	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1682	1701	1690	
E	Bulk specific gravity $\frac{B}{(C+A-D)}$	2.660	2.713	2.592	**2.655**
G	Absorption (%) $\frac{(A-B)*100}{B}$	1.092	0.448	2.623	**1.388**

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CIVIL EXPERTS
ISO 9001:2015
CONSULTANTS & TESTING CENTER

Highway / Building Material Testing | Structural Strengthening Solutions
Quality Control / Assurance / Audit | Proof Checking (Structural Designs & Drawings)
Soil Stabilization and Shoring Services | Non - Destructive Testing

NABL ACCREDITED AS PER ISO/IEC 17025:2017

Job No.:CECTC-MT-IWD-072-2020-21

Date: 16.07.2020

TEST RESULTS OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : Bruhat Bangalore Mahanagara Palike.
Contractor : Sri.P Hemanth (SOORYA CREATERS), Bangalore.
Name of Consultant : Tejus Consultants
Name of Work : Construction of CC Drains and Roads in Rachenahalli Village in Ward No.06.
Sample Identification : 8mm, 10mm, 12mm. TMT Fe 500 Bars
Technical Reference : IS 1786:2008, IS 1608:2005, IS 1599:1985 (Reaffirmed 2006)
Date of test: : 16.07.2020

Sl.No	Nominal size (dia in mm)	Mass per metre (kg/metre)	TENSILE STRENGTH		
			0.20 % proof stress/ yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation, percent on gauge length
1	8	0.397	520	558	15
2	10	0.620	532	572	16
3	12	0.889	547	583	17

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For Civil Experts

Authorised Signature

A.E.E (Project)

174, Sri Ranga Complex, Amrutha Nagar Main Road, New Bank Colony, Konanakunte, Bangalore - 560 062.
Mobile : +91 97429 59595 | Tel/Fax : 080 2632 2565 | Email : civilexpertsltd@gmail.com | URL : www.civilexperts.co.in

TEJUS
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Test Report on Cement

Project	Construction of CC Drains and Roads in Rachenahalli Village in Ward No.06
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri. P Hemanth (SOORYA CREATERS)
Sample ID	Cement (ACC Cement) OPC 43 Grade
Date of Sample Tested	17-07-2020
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	124 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	486 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	6 mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	28.00%	25 % to 35

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A.E.E. (Project)

TEJUS CONSULTANTS

Authorised Signatory

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike	
Project	Construction of CC Drains and Roads in Rachenahalli Village in Ward No.06	
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore	
Contractor	Sri. P Hemanth (SOORYA CREATERS)	
Total Weight:	10000	gms

SIEVE ANALYSIS

Type of Material	20 mm down size	Proposed Use	Concrete
Sample Location	2nd main road	Date of Sampling	22-07-2020
		Date of Testing	23-07-2020

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
40.00 mm	0	0	0	100	100
20.00 mm	265	265	2.65	97.35	95 - 100
10.00 mm	4886	5151	51.51	48.49	25 - 55
4.75 mm	4226	9377	93.77	6.23	0 - 10
Pan	623	10000			

Remarks : Satisfactory / Not Satisfactory

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TEST REPORT

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Construction of CC Drains and Roads in Rachenahalli Village in Ward No.06
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri. P Hemanth (SOORYA CREATERS)

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	Fine aggregate (M sand)	Proposed Use	concrete
Location/Source	2nd Main road	Date of Sampling	22-07-2020
Period of Soaking	24 hours	Date of Testing	23-07-2020

Sl. No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.	654	671	658	
B	Weight of oven - dry sample gm.	641	670	648	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1682	1701	1690	
E	Bulk specific gravity $\frac{B}{(C+A-D)}$	2.595	2.735	2.667	2.666
G	Absorption (%) $\frac{(A-B)*100}{B}$	2.028	0.149	1.543	1.240

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Construction of CC Drains and Roads in Rachenahalli Village in Ward No.06
Consultants	TEJUS CONSULTANTS
Contractor	Sri. P Hemanth (SOORYA CREATERS)
Total Weight:	10000 gms

SIEVE ANALYSIS

Type of Material	12.5 mm down size	Proposed Use	CONCRETE
Sample Location	2nd main road	Date of Sampling	22-07-2020
		Date of Testing	23-07-2020

IS Sieve Size (in mm)	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
20.0	0	0	0	100	100
12.5	545	545	5.45	94.55	90-100
10.0	4635	5180	51.80	48.20	40-85
4.75	4452	9632	96.32	3.68	0-10
Pan	368	10000			

Remarks : ✓ Satisfactory / Not Satisfactory

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Construction of CC Drains and Roads in Rachenahalli Village in Ward No.06
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri. P Hemanth (SOORYA CREATERS)
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample Location	2nd main road

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	22-07-2020	29-07-2020	7 days	8.125	22500	315	14.00	13.93
2	22-07-2020	29-07-2020	7 days	8.130	22500	313	13.91	
3	22-07-2020	29-07-2020	7 days	8.140	22500	312	13.87	

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Construction of CC Drains and Roads in Rachenahalli Village in Ward No.06
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri. P Hemanth (SOORYA CREATERS)
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample Location	2nd main road

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	22-07-2020	18-08-2020	28 days	8.138	22500	499	22.18	22.15
2	22-07-2020	18-08-2020	28 days	8.136	22500	496	22.04	
3	22-07-2020	18-08-2020	28 days	8.146	22500	500	22.22	

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A.E.E. (Project)

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Authorised Signatory

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No. 58, 3rd main, 6th Cross, 1st Stage KHB Colony, Basaveshwaranagar, Bangalore - 560079, O : +91 80 23287532, tejusconsultants@gmail.com

TEJUS
CONSULTANTS

TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Construction of CC Drains and Roads in Rachenahalli Village in Ward No.06
Consultants	Tejus Consultants, Bangalore
Contractor	Sri. P Hemanth (SOORYA CREATERS)

SIEVE ANALYSIS

Total Weight:	3000 gms		
Type of Material	Fine aggregate M sand)	Proposed Use	concrete
Sample Location	2nd Main road	Date of Sampling	22-07-2020
		Date of Testing	23-07-2020

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
20.00 mm	0	0	0	100.00	100
4.75 mm	218	218	7.27	92.73	90 - 100
2.36 mm	326	544	18.13	81.87	75 - 100
1.18 mm	443	987	32.90	67.10	55 - 90
600 mm	458	1445	48.17	51.83	35 -59
0.300 mm	757	2202	73.40	26.60	8-30
0.150 mm	632	2834	94.47	5.53	0 - 10
an	166	3000			-

Remarks : ✓ Satisfactory / Not Satisfactory

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PRECAST SLAB (CORE) TEST REPORT

Client	:	Bruhat Bangalore Mahanagara Palike
Contractor	:	Sri. P Hemanth (SOORYA CREATERS)
Name of Work	:	Construction of CC Drains and Roads in Rachenahalli Village in Ward No.06
No.of Sample Tested	:	3
Date of Testing	:	12-08-2020
Technical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M20 . 250mm Thick

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (KN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	100.00	180.00	3.553	2513.23	1.80	0.960	160.00	20.37	22.00	21.12	26.40
2	100.00	180.00	3.533	2499.09	1.80	0.960	161.00	20.50	22.14	21.25	26.57
3	100.00	180.00	3.531	2497.67	1.80	0.960	158.00	20.12	21.73	20.86	26.07

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A.E.E. (Project)

Consultant's Representative

TEJUS
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PRECAST SLAB (CORE) TEST REPORT

Client	:	Bruhat Bangalore Mahanagara Palike
Contractor	:	Sri. P Hemanth (SOORYA CREATERS)
Name of Work	:	Construction of CC Drains and Roads in Rachenahalli Village in Ward No.06
No.of Sample Tested	:	3
Date of Testing	:	12-08-2020
Technical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M20 . 250mm Thick

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (KN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	100.00	180.00	3.553	2513.23	1.80	0.960	160.00	20.37	22.00	21.12	26.40
2	100.00	180.00	3.533	2499.09	1.80	0.960	161.00	20.50	22.14	21.25	26.57
3	100.00	180.00	3.531	2497.67	1.80	0.960	158.00	20.12	21.73	20.86	26.07

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A.E.E. (Project)

Consultant's Representative

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TEJUS
CONSULTANTS

Test Report on Cement

Project	Construction of CC Drains and Roads in Rachenahalli Village in Ward No.06
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri. P Hemanth (SOORYA CREATERS)
Sample ID	Cement (ACC Cement) OPC 43 Grade
Date of Sample Tested	18.11.2020
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	142 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	545 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	6 mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	28.00%	25 % to 35

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TEJUS CONSULTANTS

Authorised Signatory

A.E.E. (Project)

TEJUS
CONSULTANTS

Test Report on Compressive strength of Solid Block

Project	Construction of CC Drains and Roads in Rachenahalli Village in Ward No.06
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri. P Hemanth (SOORYA CREATERS)
Cross sectional area	80000mm2
Size of cube	400mm x 150mm x 200mm
No. of Block Tested	1
Reference IS code:	IS:2185 (Part 1)- 2005

Sl.No.	Date of Sampling	Date of testing	Area of Cube	Failure load	Compressive strength	Obtained Average compressive strength	Minimum Required compressive strength of individual units
			mm^2	KN	N/mm^2	N/mm^2	N/mm^2
1	18-11-2020	19-11-2020	80000	407.00	5.09	5.05	5.00
2	18-11-2020	19-11-2020	80000	401.00	5.01		
3	18-11-2020	19-11-2020	80000	404.00	5.05		

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A.E.E. (Project)

TEJUS CONSULTANTS

Authorised Signatory

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TEST REPORT

Clients	Bruhath Bangalore Mahanagara Palike
Project	Construction of CC Drains and Roads in RK Hegdenagar 3rd Main and Surrounding Roads in Ward No.6.
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri. P Hemanth (SOORYA CREATERS)
Total Weight in gm:	3000

SIEVE ANALYSIS

Type of Material	40 mm down size	Proposed Use	PCC
Sample Location	3rd cross road,Rachenahalli	Date of Sampling	18-11-2020
		Date of Testing	19-11-2020

IS Sieve Size	Weight Retained in gm	Cum. Weight Retained in gm	Cumulative Weight Retained in %	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA-2007) % of Passing For Graded Aggregate of Nominal Size
80.00mm	0	0	0.00	100.00	100
63.00mm	0	0	0.00	100.00	-
40.00mm	85	85	2.83	97.17	95-100
20.00mm	1425	1510	50.33	49.67	30-70
10.00mm	998	2508	83.60	16.40	10-35
4.75mm	466	2974	99.13	0.87	0-5
Pan	26	3000	100.00	0.00	

Remarks : ✓ Satisfactory / Not Satisfactory

Note:
1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory/Site.
3. Any Query regarding the report must be reported reported within 15days from the date of testing.
4. The material used in the site satisfied the standard of MORTH's 5th revision and hence can be used in the work.

A.E.E (Project)

TEJUS CONSULTANTS

Authorised Signatory

TEJUS
CONSULTANTS

TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Construction of CC Drains and Roads in Rachenahalli Village in Ward No.06
Consultants	Tejus Consultants, Bangalore
Contractor	Sri. P Hemanth (SOORYA CREATERS)

SIEVE ANALYSIS

Total Weight:	3000 gms		
Type of Material	Fine aggregate (M sand)	Proposed Use	PCC
Sample Location	3rd cross road,Rachenahalli	Date of Sampling	18-11-2020
		Date of Testing	19-11-2020

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	219	219	7.30	92.70	90 - 100
2.36 mm	325	544	18.13	81.87	75 - 100
1.18 mm	432	976	32.53	67.47	55 - 90
600 mm	485	1461	48.70	51.30	35 -59
0.300 mm	743	2204	73.47	26.53	8-30
0.150 mm	621	2825	94.17	5.83	0 - 10
Pan	175	3000			-

Remarks : ✓ Satisfactory / Not Satisfactory

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A.E.E (Project)

TEJUS CONSULTANTS

Authorised Signatory

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TEST REPORT

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Construction of CC Drains and Roads in Rachenahalli Village in Ward No.06
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri. P Hemanth (SOORYA CREATERS)

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	Fine aggregate (M sand)	Proposed Use	PCC
Location/Source	3rd cross road,Rachenahalli	Date of Sampling	18-11-2020
Period of Soaking	24 hours	Date of Testing	19-11-2020

Sl. No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.	654	638	678	
B	Weight of oven - dry sample gm.	650	628	666	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1690	1676	1698	
E	Bulk specific gravity $\frac{B}{(C+A-D)}$	2.720	2.650	2.612	2.660
G	Absorption (%) $\frac{(A-B)*100}{B}$	0.615	1.592	1.802	1.337

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TEJUS CONSULTANTS

A.E.E. (Project)

Authorised Signatory